Learning to Fly: The Wright Brother's Adventure							
1997 Science							
		Learning Stand	ards				
Illinois Science							
Grades 6-8	_						
Activity/Lesson	State	Standards					
			Analyze historical and contemporary cases				
			in which the work of science has been				
		SCI.6-	affected by both valid and biased scientific				
The Society	IL	8.13.A.3b	practices.				
			I double income to the contribution of the colored				
		001.0	Identify important contributions to science				
The Casian		SCI.6-	and technology that have been made by				
The Society	IL	8.13.B.3b	individuals and groups from various cultures.				
Wright Brothers:		SCI.6-	Select the most appropriate design and build				
1900 Glider	IL	8.11.B.3c	a prototype or simulation.				
Wright Brothers:	l	SCI.6-	Select the most appropriate design and build				
1901 Glider	IL	8.11.B.3c	a prototype or simulation.				
Wright Brothers:		SCI.6-	Select the most appropriate design and build				
1902 Glider	IL	8.11.B.3c	a prototype or simulation.				
Wright Brothers:		SCI.6-	Select the most appropriate design and build				
1903 Flyer	IL	8.11.B.3c	a prototype or simulation.				
		SCI.6-	Report and display the process and results				
Meet the Wrights	IL	8.11.A.3g	of a scientific investigation.				
			Analyze historical and contemporary cases				
			in which the work of science has been				
		SCI.6-	affected by both valid and biased scientific				
Meet the Wrights	IL	8.13.A.3b	practices.				
			Identify important contributions to science				
		SCI.6-	and technology that have been made by				
Meet the Wrights	IL	8.13.B.3b	individuals and groups from various cultures.				
		SCI.6-	Report and display the process and results				
1900: Kitty Hawks	IL	8.11.A.3g	of a scientific investigation.				
			Using available technology, report the				
			relative success of the design based on the				
1900: Kitty Hawks	IL.	SCI.6-8.11.B.3f	test results and criteria.				
		SCI.6-	Conduct scientific experiments that control				
New Data	IL	8.11.A.3b	all but one variable.				
		SCI.6-	Explain the existence of unexpected results				
New Data	IL	8.11.A.3d	in a data set.				
			Explain what is similar and different about				
		SCI.6-	observational and experimental				
New Data	IL	8.13.A.3c	investigations.				
			Sketch, propose and compare design				
			solutions to the problem considering				
1902: Success at		SCI.6-	available materials, tools, cost effectiveness				
	IL						
Last	IL	8.11.B.3b	and safety.				

			Use data manipulation tools and quantitative				
			(e.g., mean, mode, simple equations) and				
			representational methods (e.g., simulations,				
1903: Powered		SCI.6-	image processing) to analyze				
Flight	IL	8.11.A.3e	measurements.				
1904: Improvement	-	SCI.6-	Report and display the process and results				
in Dayton	IL	8.11.A.3g	of a scientific investigation.				
III Dayton		0.11.A.3g	of a scientific investigation.				
	Learning	to Fly: The Wright	Brother's Adventure				
1997 Science							
Learning Standards							
Illinois Science							
Grades 9-10							
Activity/Lesson	State	Standards					
		SCI.9-	Identify a technological design problem				
1900: Kitty Hawks	IL	10.11.B.4a	inherent in a commonly used product.				
			Propose and compare different solution				
			designs to the design problem based upon				
		SCI.9-	given constraints including available tools,				
1900: Kitty Hawks	IL	10.11.B.4b	materials and time.				
			Using available technology, report to an				
		SCI.9-	audience the relative success of the design				
1900: Kitty Hawks	IL	10.11.B.4g	based on the test results and criteria.				
		SCI.9-	Conduct controlled experiments or				
New Data	IL	10.11.A.4b	simulations to test hypotheses.				
			Develop and test a prototype or simulation of				
		SCI.9-	the solution design using available materials,				
New Data	IL	10.11.B.4e	instruments and technology.				
			Assess the validity of scientific data by				
			analyzing the results, sample set, sample				
			size, similar previous experimentation,				
		SCI.9-	possible misrepresentation of data presented				
New Data	IL	10.13.A.4b	and potential sources of error.				
1902: Success at		SCI.9-	Identify a technological design problem				
Last	IL	10.11.B.4a	inherent in a commonly used product.				
			Propose and compare different solution				
l <b>.</b>			designs to the design problem based upon				
1902: Success at		SCI.9-	given constraints including available tools,				
Last	IL	10.11.B.4b	materials and time.				
			Determine the criteria upon which the				
		00/ -	designs will be judged, identify advantages				
1902: Success at		SCI.9-	and disadvantages of the designs and select				
Last	IL	10.11.B.4d	the most promising design.				
		00/-	Using available technology, report to an				
1902: Success at		SCI.9-	audience the relative success of the design				
Last	IL	10.11.B.4g	based on the test results and criteria.				
			Describe how scientific knowledge,				
			explanations and technological designs may				
			change with new information over time (e.g.,				
1902: Success at		SCI.9-	the understanding of DNA, the design of				
Last	IL	10.13.A.4c	computers).				

			Propose and compare different solution
			designs to the design problem based upon
1903: Powered		SCI.9-	given constraints including available tools,
Flight	IL	10.11.B.4b	materials and time.
			Develop and test a prototype or simulation of
1903: Powered		SCI.9-	the solution design using available materials,
Flight	IL	10.11.B.4e	instruments and technology.